

CLAIMS

What is claimed is

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1. A locator system comprising:

(a) at least one locator device having a receiver structured and configured to receive electromagnetic frequency signals from a plurality of visible radiolocation transmitters and generate positional data of said locator device from said

10 electromagnetic frequency signals;

(b) a cellular modem operatively coupled to said locator device to transmit said positional data;

(c) a telecommunication provider in wireless communication with said cellular modem to receive said positional data from said cellular modem;

15 (d) a server computer in network communication with said wireless telecommunication provider to receive said positional data from said wireless telecommunication provider, said server computer having software residing therein to publish said positional data; and

20 (e) a subscriber computer in network communication with said server computer to receive and display said positional data.

25 2. The locator system as recited in claim 1 wherein said software residing is said server computer comprises web server software, said subscriber computer further comprising web browser software residing therein, said web server software

providing said positional data of said locator device to said web browser software, said positional data provided to said web browser software structured and configured as hypertext markup language pages.

- 5        3. The locator system as recited in claim 2 wherein said hypertext markup language pages further include Java applets, said Java applets providing dynamic images of said positional data.
- 10        4. The locator system as recited in claim 1, wherein said locator device is releasably coupled to a user.
- 15        5. The locator system as recited in claim 1, wherein said locator device is releasably coupled to an object.
- 20        6. The locator system as recited in claim 1 further comprising a power source coupled to said locator device and to said cellular modem, said locator device further comprising power conserving software residing therein, said power conserving software carrying out the operation of monitoring synchronization of said receiver with said radiolocation transmitters, reducing power to said cellular modem when said synchronization is lost, and restoring power to said cellular modem when said synchronization is reestablished.
- 25        7. The locator system as recited in claim 1, further comprising power conserving software residing in said locator device, said cellular modem having a rate of transmission with said wireless telecommunication provider, said power

conserving software carrying out the operation of calculating the rate of change of position of said locator device, reducing said rate of transmission to said wireless telecommunication provider when said rate of change of position decreases, and increasing said rate of transmission to said wireless telecommunication provider when said rate of change of position increases.

5        8. The locator system as recited in claim 1 wherein said radiolocation transmitters comprise global positioning system satellites.

10      9. A locator system comprising:

(a) at least one locator device, said locator device having a receiver and a CPU coupled to said receiver, said receiver structured and configured to receive electromagnetic frequency signals from a plurality of visible global positioning satellite transmitters, said receiver further structured and configured to convert said electromagnetic frequency signals into serial data, said receiver further structured and configured to communicate said serial data to said CPU, said CPU having software residing therein which generates positional data of said locator device from said serial data;

15      20     (b) a cellular modem coupled to said locator device, said CPU further having software residing therein which communicates said positional data to said cellular modem;

25      (c) a telecommunication provider in wireless communication with said cellular modem to receive said positional data of said locator device from said cellular modem;

(d) a server computer in network communication with said wireless telecommunication provider to receive said positional data of said locator device from said wireless telecommunication provider, said server computer having software residing therein to publish said positional data; and

5 (e) a subscriber computer in network communication with said server computer to receive said positional data, said positional data viewable on said subscriber computer.

10. A method for locating a locator device comprising the steps of:

10 (a) receiving electromagnetic frequency signals from a plurality of visible radiolocation transmitters;

15 (b) generating positional data of said locator device from said electromagnetic frequency signals;

(c) transmitting said positional data from a cellular modem;

15 (d) receiving said positional data transmitted from said cellular modem by a telecommunication provider in wireless communication with said cellular modem;

20 (e) providing said positional data to a server computer networked with said telecommunication provider;

(f) publishing said positional data in said server computer; and

(g) linking a subscriber computer in network communication with said server computer to receive and display said positional data.

11. The method as recited in claim 10, wherein said step of publishing said positional data is carried out by a web server software loaded in said server computer.

12. The method as recited in claim 10, further comprising the steps of:

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- (a) providing power to said cellular modem;
- (b) monitoring synchronization of said locator device with said radiolocation transmitters;
- (c) reducing power to said cellular modem when said step of monitoring synchronization determines synchronization is lost; and
- (d) restoring power to said cellular modem when said step of monitoring synchronization determines synchronization is reestablished.

13. The method as recited in claim 10, further comprising the steps of:

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- (a) calculating rate of change of position of said locator device from said positional information;
- (b) reducing rate of transmission by said cellular modem when said step of calculating rate of change of position determines rate of change of position has decreased; and
- (c) increasing rate of transmission by said cellular modem when said step of calculating rate of change of position determines rate of change of position has increased.